

Claims

1. A method for generating a translation table, the method comprising the steps of:
 - 5 accessing a domain model;
 accessing a specialized computer language specification;
 associating elements from the domain model to functions and arguments of the specialized computer language specification; and
 creating the translation table based on the associations between the
10 domain model and functions and arguments of the specialized computer language.
2. The method of claim 1 wherein the step of accessing the domain model comprises the step of accessing a set of commands, objects, and attributes
15 utilized for the particular domain.
3. The method of claim 1 wherein the step of accessing the specialized computer language (SCL) specification comprises the step of accessing a knowledge base comprising possible SCL functions and how SCL functions
20 handle arguments.
4. The method of claim 1 wherein the step of associating elements from the domain model to functions and arguments of the SCL specification comprises the step of iterating through commands, objects, and attributes for the domain
25 model, and associating each command, object, and attribute with an SCL function and/or argument.
5. The method of claim 4 further comprising the step of:
 - 30 presenting the associated elements for validation and/or inclusion into the translation table; and
 renaming domain entities to ensure correspondence with SCL entities.
6. The method of claim 1 wherein:
 - 35 the step of accessing the domain model comprises the step of accessing a set of commands, objects, and attributes utilized for the particular domain; and

the step of accessing the specialized computer language (SCL) specification comprises the step of accessing a knowledge base comprising possible SCL functions and how SCL functions handle arguments.

5 7. The method of claim 6 wherein the step of associating elements from the domain model to functions and arguments of the SCL specification comprises the step of iterating through commands, objects, and attributes for the domain model, and associating each command, object, and attribute with an SCL function and/or argument.

10 8. The method of claim 7 further comprising the step of:
presenting the associated elements for validation and/or inclusion into the translation table.

15 9. An apparatus comprising:
means for accessing a domain model;
means for accessing a specialized computer language specification;
means for associating elements from the domain model to functions and arguments of the specialized computer language specification; and
20 means for creating the translation table based on the associations between the domain model and functions and arguments of the specialized computer language.

25 10. The apparatus of claim 9 wherein the domain model comprises a set of commands, objects, and attributes utilized for the particular domain.

30 11. The apparatus of claim 9 wherein the specialized computer language (SCL) specification comprises a knowledge base comprising possible SCL functions and how SCL functions handle arguments.

35 12. The apparatus of claim 9 wherein the means for associating elements from the domain model to functions and arguments of the SCL specification comprises means for iterating through commands, objects, and attributes for the domain model, and associating each command, object, and attribute with an SCL function and/or argument.

13. The apparatus of claim 9 further comprising:
means for presenting the associated elements for validation and/or
inclusion into the translation table.
- 5 14. The apparatus of claim 9 wherein:
the domain model comprises a set of commands, objects, and attributes
utilized for the particular domain; and
the specialized computer language (SCL) specification comprises a
knowledge base comprising possible SCL functions and how SCL functions
10 handle arguments.
15. The apparatus of claim 14 wherein the means for associating elements from
the domain model to functions and arguments of the SCL specification
comprises means for iterating through commands, objects, and attributes for the
15 domain model, and associating each command, object, and attribute with an
SCL function and/or argument.
16. The apparatus of claim 15 further comprising:
means for presenting the associated elements for validation and/or
20 inclusion into the translation table.
17. A spoken language dialog system comprising:
a domain model;
a specialized computer language (SCL) specification; and
25 a table generator accessing the domain model and the SCL specification,
and outputting a translation table based on the domain model and the SCL
specification.
18. The spoken language dialog system of claim 17 wherein the domain model
30 comprises a set of commands, objects, and attributes utilized for a particular
domain.
19. The spoken language dialog system of claim 18 wherein the SCL
specification comprises a knowledge base comprising possible SCL functions
35 and how SCL functions handle arguments.

20. The spoken language dialog system of claim 19 wherein the translation table is created by the table generator by associating elements from the domain model to functions and arguments of the SCL specification.